

[Summary]

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This invention is about temperature sensitive state-changing hydrogel composition and its method of production that consists of Branched Gel Polymer 1-10 wt %, Electrolyte Gel Polymer 0.5-5 wt %, Skin-friendly Enhancements 0.5-5 wt %, Natural Bio Material 1-10 wt %, Aliphatic Polyol 3-30 wt %, Functional Additive 1-10 wt % and water 30-93 wt %. Temperature sensitive hydrogel composition is produced at temperature between 10°C and 50°C, where hydrogel transforms to a fluid state.

When this invented hydrogel composition is contacted with skin, it transforms into a fluid state owing to body temperature. Then the ingredient or medication in hydrogel can efficiently and evenly penetrate into the skin.

[Main Figure]

Figure 1

[Index Key Words]

Hydrogel, Skin, Aesthetic, Penetration, Temperature Sensitive, State-changing